

1067-05-2004

Arthur Busch* (art.busch@dayton.edu), **Michael Ferrara**, **Michael Jacobson** and **Stephen Hartke**. *Ramsey-type Numbers for Degree Sequences*.

A (finite) sequence of non-negative integers is graphic if it is the degree sequence of some simple graph G . Given graphs G_1 and G_2 , we define the *potential-Ramsey number*, $r_{pot}(G_1, G_2)$, as the smallest integer n such that for every n -term graphic sequence π , there is some graph G with degree sequence π with $G_1 \subseteq G$ or with $G_2 \subseteq \overline{G}$. Bounded above by the well-studied classical Ramsey number, we consider situations where equality holds, and give exact values for $r_{pot}(K_n, K_t), r_{pot}(C_n, K_t), r_{pot}(P_n, K_t)$. (Received September 22, 2010)